

CLAIMS

1. Apparatus for handling rotor blades of wind power installations characterised by a rigid carrier element (10) with at least one rotor blade receiving means (11, 14, 16, 18, 30) fixedly connected thereto.
2. Apparatus according to claim 1 characterised by a ball rotary joint (12) arranged on the carrier element (10).
3. Apparatus according to claim 2 characterised by a rotary mechanism drive at the ball rotary joint (12).
4. Apparatus according to one of the preceding claims characterised by eyes (26) which are mutually spaced in the longitudinal direction of the carrier element (10) for pulling cables.
5. Apparatus according to one of the preceding claims characterised in that the rotor blade receiving means (11, 14, 16, 18, 30) is in the form of a carrier frame (11, 14, 16, 18) which encloses the rotor blade (29) at three sides.
6. Apparatus according to one of the preceding claims characterised in that a locking member (18) is mounted pivotably at one side of the rotor blade receiving means (10, 11, 14, 16).
7. Apparatus according to one of the preceding claims characterised in that the rotor blade receiving means (10, 11, 14, 16, 18) embraces the rotor blade (29) in positively locking relationship.
8. Apparatus according to one of the preceding claims characterised by cushions (24, 34) provided between the rotor blade receiving means (10, 11, 14, 16, 18, 30) and the rotor blade (29).

9. Apparatus according to claim 8 characterised by inflatable cushions (24, 34).

10. Apparatus according to claim 9 characterised by valves for filling and/or emptying the inflatable cushions (24).

11. Apparatus according to claim 9 or claim 10 characterised by an energy storage means and/or pressure storage means and/or at least one plug connector for the connection of an electrical and/or hydraulic and/or pneumatic line.

12. Apparatus according to one of claims 1 to 4 characterised in that the rotor blade receiving means includes at least one carrier bar (30) extending perpendicularly with respect to the carrier element (10).

13. Apparatus according to claim 12 characterised in that a carrier plate (32) is fixed releasably to the side of the carrier bar (30), which is remote from the carrier element (10).

14. Apparatus according to claim 12 or claim 13 characterised in that the cross-section of the carrier bar (30) is variable in at least one portion.

15. Apparatus according to one of the preceding claims characterised by a device for bolting the apparatus to the roller head of a crane.

16. Apparatus according to one of the preceding claims characterised by container corners (20) at the top side and/or the underside of the apparatus.